

# *SYSTEM AND METHOD FOR PREDICTIVE UNDER-FUELING AND OVER-FUELING IN A COMBUSTION ENGINE*

## **Abstract**

A system and method for operating a two-stroke engine that includes at least one cylinder, a piston reciprocally disposed therein, and a scavenging port for egress of exhaust gasses therefrom. A charge purity detector is in operable association with the at least one cylinder to detect irregular combustion in the at least one cylinder. An ECU is connected to receive signals from the charge purity detector and programmed to adjust a charge parameter in a next cycle in response to detected irregular combustion.